

Figure 1: Sample present invention deployment across data centers

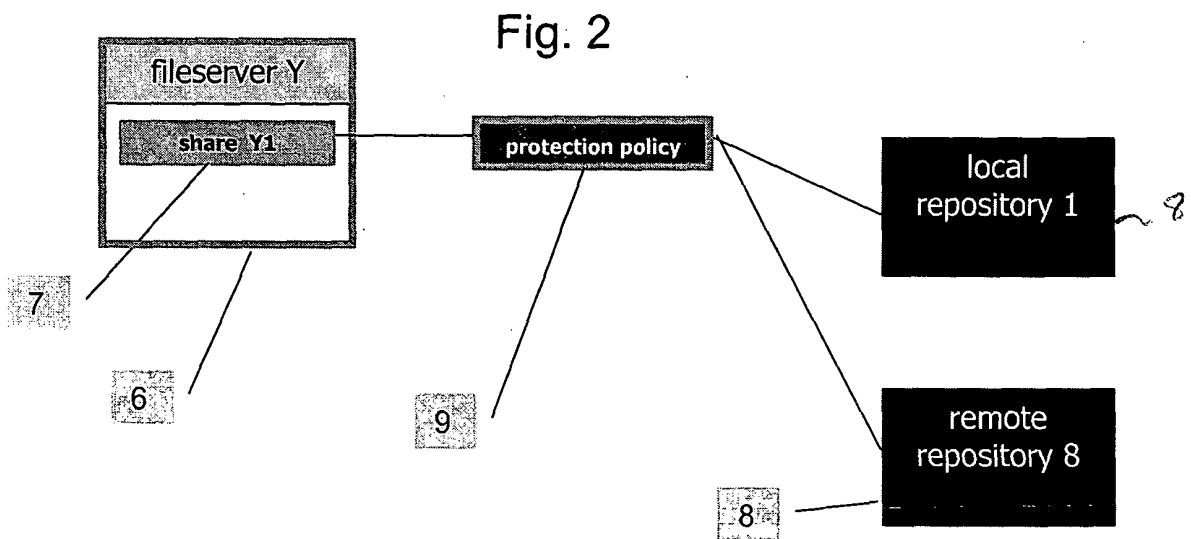


Figure 2: Association between fileserver shares and their repositories via protection policies

Fig. 3

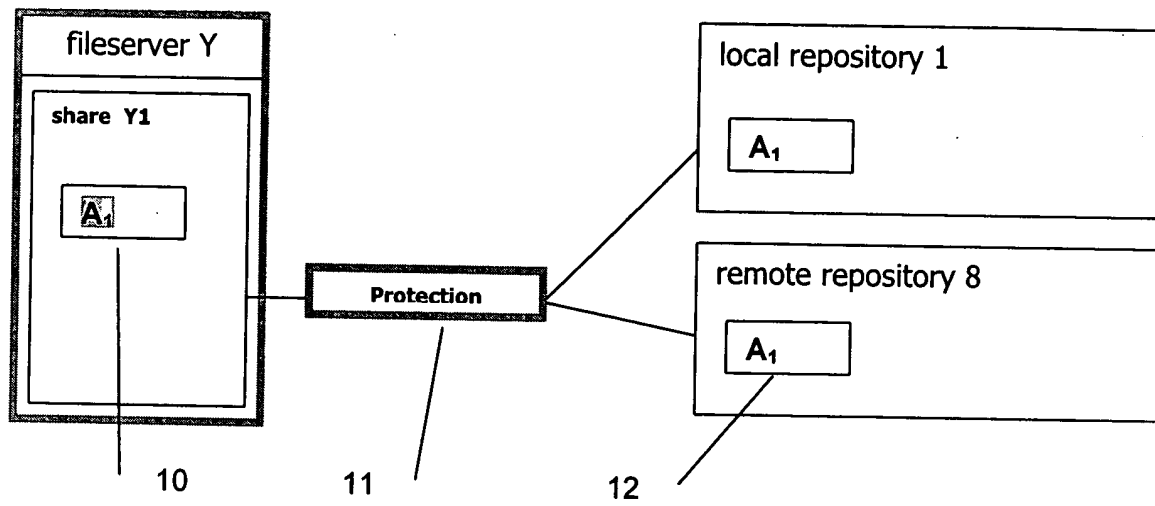


Figure 3: Replication

Fig. 4

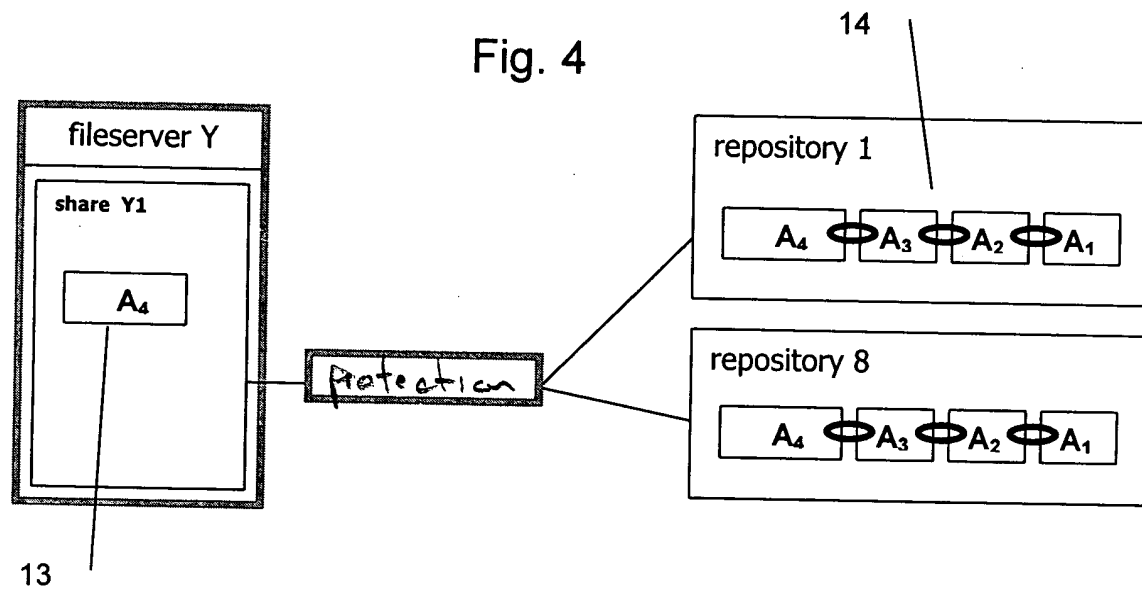


Figure 4: Versioning

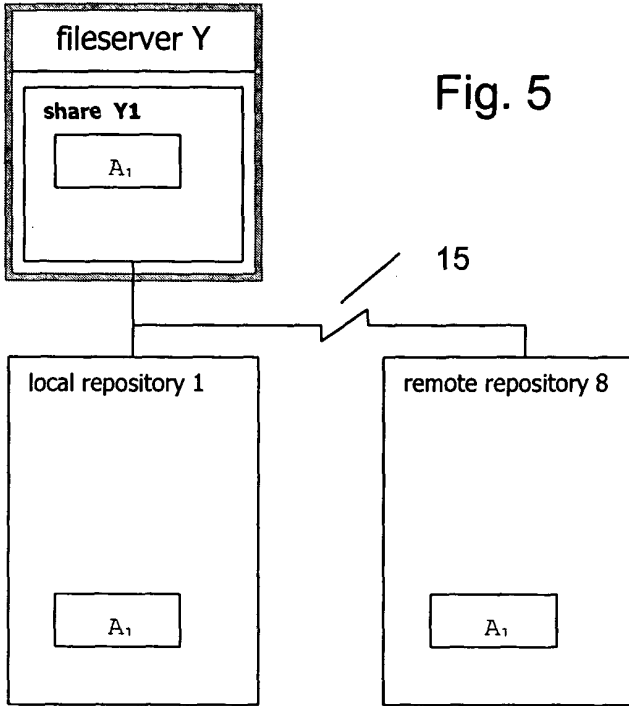


Figure 5 - Remote Replication with Delta Compression - Step 1

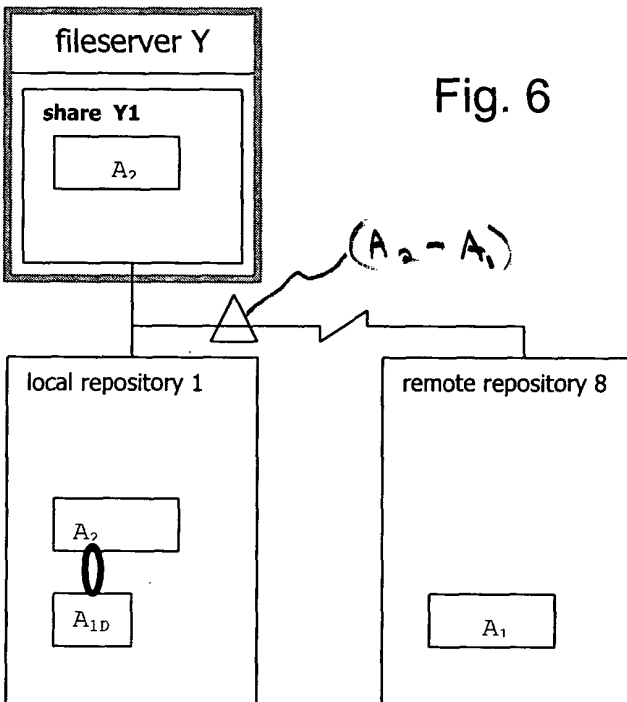


Figure 6 - Remote Replication with Delta Compression - Step 2

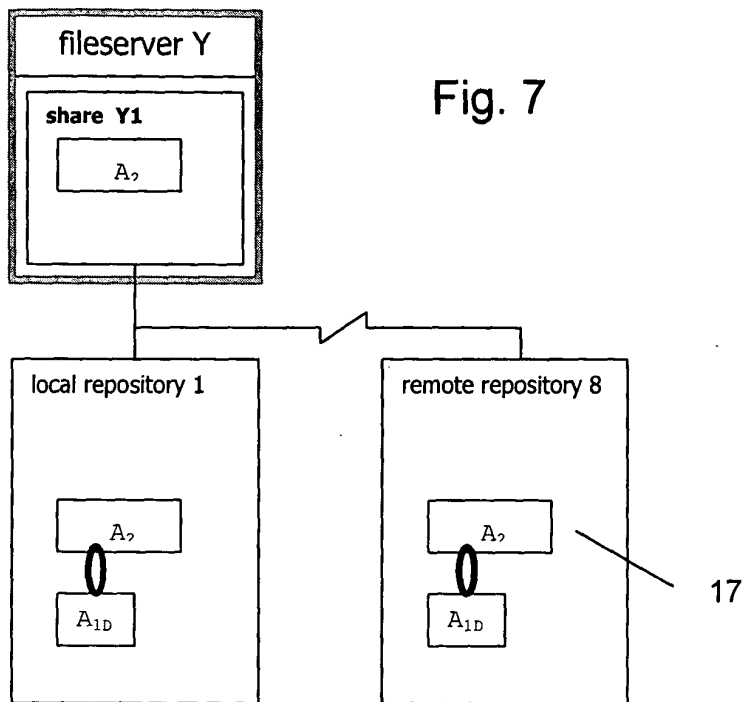


Figure 7- Remote Replication with Delta Compression - Step 3

Fig. 8

The image shows a software window for configuring a protection policy. On the left is a sidebar with tabs: General, CIFS Sharing, NFS Sharing, FTP Sharing, and Protection Policy. The Protection Policy tab is selected. The main area is divided into sections: Policy Identification, Protection Management, Version Management, and Advanced Options. Numbered callouts (18-26) point to specific elements: 18 points to the Protection Policy tab; 19 points to the Policy Identification section; 20 points to the Backup Frequency setting; 21 points to the Replicas list; 22 points to the Keep Version History checkbox; 23 points to the Version Compression dropdown; 24 points to the Version Compaction checkboxes; 25 points to the Purge checkbox; and 26 points to the Caching Level dropdown.

Section	Field / Setting	Value / Option
Policy Identification	Share	GP_Marketing/Marcom2
	Protect this share	<input checked="" type="checkbox"/>
	Protection Policy Name	marcom2
	Description	2 Local, 0 Remote
Protection Management	User Data	D135
	Backup Frequency	1 Hour
	Replicas	2
	Replicas in	New York/Hudson
Version Management	Keep Version History	<input checked="" type="checkbox"/>
	Version Compression	Delta Compression
	Version Compaction	<input checked="" type="checkbox"/> Keep only one daily version after 7 days
		<input checked="" type="checkbox"/> Keep only one weekly version after 4 weeks
		<input checked="" type="checkbox"/> Keep only one monthly version after 12 months
Advanced Options	Purge all versions of files that are deleted from this share	<input checked="" type="checkbox"/> 7 days after they are deleted
	Caching Level	High

Fig 8. The present invention's protection policy

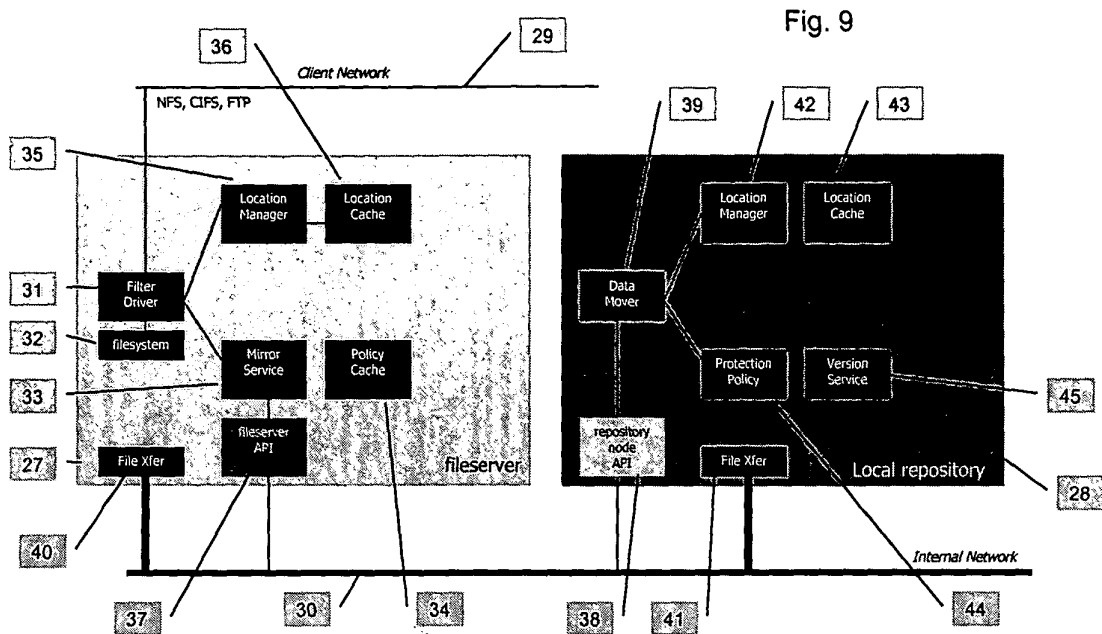


Fig 9. Apparatus and modules used to protect data to a local repository

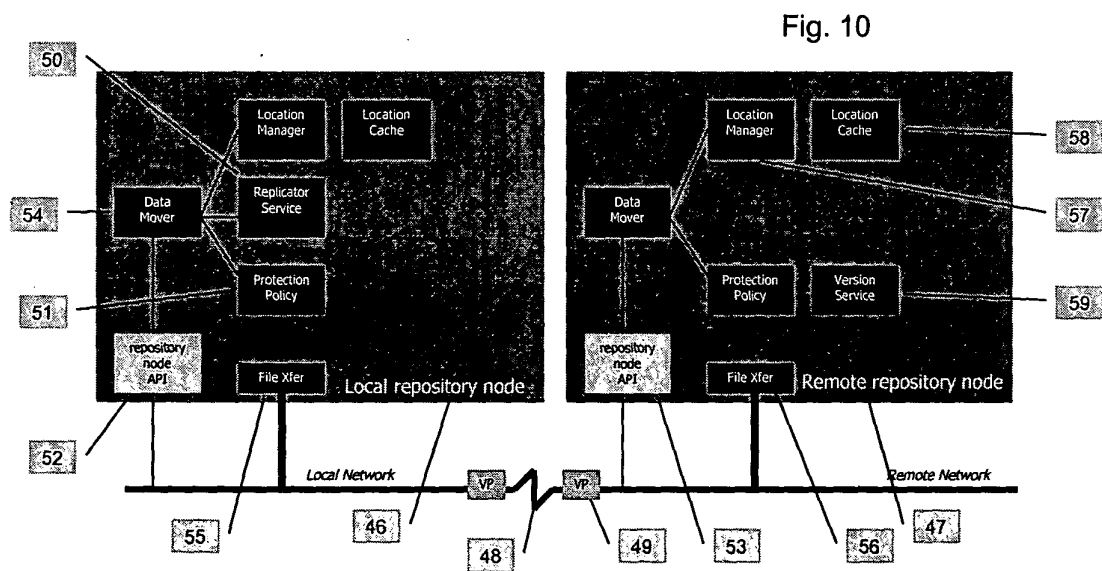


Fig 10. Inter-repository replication